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(54) Title: ALGORITHMIC GENERATION OF AFU CALLIGRAPHY

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(57) Abstract: A method for processing a data string of Arabic text characters into Arabic calligraphic script representation data. The method comprises identifying words in the string; identifying a form of the characters in the words, the form comprising initial, medial, final and isolated; for the characters that are not of the isolated form, identifying a type of the characters as a function of compatibility with a type of a neighboring character; selecting, for each one of the characters in the data string, a glyph from a set of predetermined glyphs corresponding to the characters, the forms and the type; and determining a vertical offset for each glyph to match neighboring glyphs, the script representation data comprising glyph identification data and offset data for each character in the data string.

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